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Abstract

A backrest for use with a chair includes a support structure. The support structure has a rigid outer rim and flexible inner back support section. The support section consists of a number of generally parallel slats (vertically extending members) which separately support parallel longitudinal sections of the person's back. Each slat produces a force against the person's back responsive to the weight placed on the slat by the person's back. As the person shifts positions, each slat moves to dynamically provide an increased or decreased force against the person's back, depending on whether the person is applying an increased or decreased force against the slat.